ERGONOMICS RISK ANALYSIS

Job Title: Microscope Use				
Job Description:				
Evaluators:				
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Supervisor/ Contacts:				
Patsy Gilbert, Patti Kluck, Paul Borenstein				
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Awkward Pos			I =	
Neck	□ No Problem Observed	Specific Job Tasks:	Solutions:	
	✓ Twisted (rotated)✓ Tilted Back	While looking in microscope	Provide education	
	☐ Titled Back ☐ Tilted Forward	and viewing computer screen	Adjustable microscopes, equipment and/or	
	✓ Lateral (bending side to side)		modifications	
	Other		modifications	
Wrist	☐ No Problem Observed or	Specific Job Tasks:	Solutions:	
VV 115t	Reported	While using microscope	Provide education	
	⊠ Flexion	controls and using computer	Equipment: padding	
	⊠Ulnar Deviation		Adjustable workstations	
			Adaptations to equipment:	
	■ Radial Deviation		knob extensions	
	Other			
Elbows/Forearm	□ No Problem Observed or	Specific Job Tasks:	Solutions:	
	Reported	While using microscope	Provide education	
	✓ Flexed (arm bent up)✓ Extended (arm straight)	controls and computer	Equipment: Forearm supports, desk surface	
	✓ Winged (away from body)		edge padding	
	☐ Supination (palm up)		eage padding	
	☐ Pronation (palm down)			
	☐ Sustained extension/flexion			
	□ Other			
Back	☐ No Problem Observed or	Specific Job Tasks:	Solutions:	
	Reported	Minimal to no back support	Provide education	
	⊠ Slouched	while looking in eye piece,	Equipment: ergonomic	
		shoulders rounded forward,	chairs/stools	
	☐ Other	Back twists while reaching for keyboard or mouse	Relocation of computer workstations	
	- Other	for Reyboard of mouse	Adjustable workstations	
Shoulders	☐ No Problem Observed or	Specific Job Tasks:	Solutions:	
Shoulders	Reported	Microscope controls and	Provide education	
	▼ Forward Reach ■ Torward Reach	keyboard/mouse use	Adaptations to equipment:	
	☐ Reaching Behind		knob extensions	
	Raised/above shoulder height			
	☑ Side Reach			
Legs	☐ Insufficient leg clearance	Specific Job Tasks:	Solutions:	
	☐ Stance ☐ Other	Since working a fixed desk	Adaptations to	
	☐ Other	height someone tall may get contact pressure on thighs	environment: remove facing and/or drawers	
Other	■ Work surface height	Specific Job Tasks:	Solutions:	
Other	Work surface neight	Nonadjustable workstations	Adjustable workstations	
		with multiple users	110justus10 Wolfistus15115	

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Repetitive Activities	Description: Forward neck posture Repetitive keystroke during counting	Solutions: Provide education Reposition device while doing counting
Static Postures	Description: Sitting Forward head posture Reaching	Solutions: Provide education
Contact Stress/Pressure	Description: Hard edges of desk surface Insufficient leg clearance	Solutions: Padding for edges of counters Adaptations to environment: remove facing and/or drawers
Work Style/Flow	Description: Can take 2 hours or longer, Some slides are time sensitive Tasks do allow for minibreaks	Solutions: Provide education Use external cueing device for reminder of stretch break Install Stretchware
Environment (organization, access, layout, hazards, lighting, temperature)	Description: Multiple users in some locations, some located at standing height position, some are assigned to individual users Sometimes working in the dark	Solutions: Provide education Adjustable work stations Use reflective tape to mark doors and floors
Other	Description: Currently have gel pads, various chairs, various microscopes, back cushions	Solutions: Provide equipment alternatives: including computer workstation, microscope and accessories Evaluate current equipment

Summary:

- 1. Provide education on ways to avoid risk factors, body mechanics, posture, stretching, mini-breaks, alternating positions, workstation adjustments/ proper positioning (including chair and input devices)
- 2. Equipment recommendations: adjustable workstations (keyboard trays and monitors), edge padding, forearm pads, mini-break cueing devices, ergonomic chairs and stools
- 3. Environment/ equipment modifications: reflective tape, knob extensions, remove facing and/or drawers
- 4. Explore alternative microscope and/ or accessories
- 5. Perform ergonomic evaluations in all work environments for each employee

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Microscope Risk Analysis Photos



Photo 1. Microscope setup.



Photo 2. Microscope problem area.